E.—EXPLOSIVES SECTION.

(Calendar year 1931.)

Number of licenses issued.—During the year, nine licenses in Form J. were granted by Government under Articles 12 and 13 of Schedule I, Mysore Explosives Rules, for the possession of specified explosives (other than fulminates) in and sale from, a magazine as against the same number granted in 1930. The actual number of magazines inspected and in use is far in excess of this figure, each gold Mining Company having two or more magazines included under one license in accordance with Rule 94, Mysore Mining Rules; all these have been inspected.

Altogether, 694 licenses were issued by the District Magistrates under the remaining Articles of Schedule I in Forms A, B, C, D, E and F for the manufacture, possession and sale of explosives, 44 less than in the previous year.

In all, 703 licenses were granted throughout the State for the year compared with 747 during 1930, a decrease of 44 licenses. This is due to a small decrease in the number of licenses issued by the District Magistrates under each of the various Forms mentioned above.

The following statement shows the distribution of licenses in the several Forms among the Districts for the year :—

District	Forms								Total for 1931	Total for 1930
	A	B	C	D	E	F	J	K		
1. Bangalore ...	8	78	...	...	54	...	1	..	141	161
2. Kolar ...	6	39	...	...	49	...	6	...	100	102
3. Tumkur ...	5	16	...	...	28	...	...	...	49	65
4. Mysore ...	8	48	...	...	25	..	2	...	83	63
5. Hassan ...	6	29	...	18	31	1	..	...	85	97
6. Shimoga ...	25	62	...	2	13	...	..	...	102	94
7. Kadur ...	16	47	2	2	35	...	...	...	102	116
8. Chitaldrug ...	9	20	...	...	12	...	..	...	41	49
Total ...	83	339	2	22	247	1	9	...	703	747

Observations on the issue of licenses by the District Magistrates.—It is gratifying to note that the repeated endeavours of this Department have resulted in minimising cases of issue of licenses on wrong forms, licensing larger quantities of explosives than are allowed by the rules, charging excessive or insufficient fees, etc. However, there are certain irregularities still to be observed in the monthly returns from the districts, and these are promptly brought to the notice of the licensing authorities while at the same time the correct procedure to be followed is indicated.

Departmental inspection of Magazines and Premises.—All the main and subsidiary magazines included in the licenses granted by Government for the possession of specified explosives in bulk both on the Kolar Gold Field and outside and all the daily supply magazines at important shaft-heads have been inspected in detail during the year by the officers of this Department and the lightning conductors attached to them tested. The magazines are in good order and their upkeep and supervision well attended to. As usual, the companies have been found to be most willing to carry out any recommendations made and our thanks are due to them for making our duties easy in this respect.

Two new daily supply magazines constructed at the top of McTaggart's Vertical and Pilot Shafts, Mysore Gold Mine, were inspected and passed for the storage of explosives during the year.

In addition, some of the premises licensed for the manufacture, possession and sale of explosives in Bangalore and Mysore Cities were inspected by the officers of this Department during the year when the rules on the subject were explained to the licensees and safe methods of manufacture and storage advised.

Condition of Explosives.—The Physical condition of all explosives in the different magazines was found to be good.

Authorised Explosives.—A list of explosives at present authorised for importation into the State for general sale, adopted from the list of explosives authorised for importation into British India, is given in Appendix III.

Government Magazines in charge of Civil Officers (Public Works and Electrical).—Twelve reports of inspection of these magazines by the officers of the Public Works and Electrical Departments have been received in this office and any irregularities or defects which required remedying have been brought to the notice of the officers concerned.

The Public Works Divisional magazines at Mysore and Shimoga as also the magazine belonging to the Mysore Iron Works at Bhadravati were inspected during the year.

Inspection by the Magistracy and the Police.—The total number of inspections of explosives premises carried out during the year by the Magisterial and Police Officers empowered to conduct them under Rule 125, Mysore Explosives Rules, was 651 compared with 529, an increase of 122 inspections.

Two hundred and sixty-seven premises or 59·73 per cent of the total number licensed (447) excluding 247 "E" licenses issued for the possession of small quantities of explosives required *bona fide* for blasting purposes and the nine magazine licenses granted by Government that come under the direct supervision of the Chief Inspector of Mines in Mysore have been inspected by the District authorities.

The following table gives the number of licenses issued in the several districts during the year and the percentage of premises inspected in each during 1931 and the two previous years :—

District	Number of licenses issued during			Percentage of premises inspected during			Remarks
	1931	1930	1929	1931	1930	1929	
1. Bangalore ...	141	161	172	(*a*)24·42	29·03	26·80	1 Granted by Government.
2. Kolar ...	100	102	135	95·56	56·36	40·38	6 do
3. Tumkur ...	49	65	58	66·67	57·14	40·00	
4. Mysore ...	83	63	60	39·29	43·75	24·44	2 do
5. Hassan ...	85	97	101	51·85	28·57	39·22	
6. Shimoga ...	102	94	93	55·06	56·04	50·00	
7. Kadur ...	102	116	111	98·51	30·43	27·27	
8. Chitaldrug ...	41	49	64	82·76	71·43	62·07	
Total ...	703	747	794	(*b*)59·73	(*b*)43·17	(*b*)37·03	

(a) It is stated that 63 licenses in Form B were issued temporarily for the possession and sale of foreign crackers during the Deepavali season and that all these premises have been inspected.

(b) These percentages are obtained after excluding the magazine licenses brought under the direct inspection of the Chief Inspector of Mines in Mysore and the licenses in Form E (granted to contractors, cultivators and others) to possess small quantities of gunpowder and other explosives required for *bona fide* blasting purposes.

Theft of Explosives.—Two cases of theft of detonators from the annexe of the explosives magazine at Shinduvalli Mine were reported to this Department during the year. The first of them occurred on 9th April 1932 when 1,776 detonators were stolen and the second on 7th May 1932 when 800 detonators were stolen. The cases are reported to be under investigation by the Police.

The case of theft of explosives referred to in the last year's report was struck off as it remained undetected for more than a year.

Prosecutions for unlicensed manufacture of or dealing in Explosives.—There were 19 cases of prosecutions under the Mysore Explosives Rules during the year, 17 of them in connection with accidents. Two of these are still pending disposal. All the three cases that were pending disposal at the close of last year were disposed of, two resulting in conviction and one ending in acquittal.

In three out of the five cases in the Bangalore District, 3 persons were convicted for the unauthorised manufacture and possession of the highly dangerous and prohibited explosive "Bellulli Pattas" and gunpowder and sentenced to pay fines ranging from Re. 1 to Rs. 3. One other case ended in acquittal and the fifth case is pending disposal.

In the Mysore District, 7 persons were convicted in 7 separate cases—three for violating the conditions of their licenses and four for the unauthorised manufacture and possession of the dangerous "Bellulli Pattas" mixture and other explosives—and sentenced to pay fines ranging from Rs. 3 to Rs. 100 in each case. Of the three other cases, one was struck off the file as the accused has absconded, one ended in acquittal and the last is pending disposal.

A person was convicted and sentenced to pay a fine of Rs. 20 in the Tumkur District for the unauthorised possession of "Bellulli Pattas."

In one case in the Kolar District, the prosecution was ordered to be withdrawn by the District Magistrate.

Two cases of prosecution for violating conditions of licenses in the Chitaldrug District ended in the acquittal of the accused persons for want of sufficient evidence.

Accidents.—In all, there were reported to this Department during the calendar year 1931, 65 accidents due to explosives involving the death of 15 persons and serious and trivial injuries to 79 others. The corresponding figures for 1930 were 58, 14 and 76 respectively. Of the 65 accidents, 9 occurred on the Kolar Gold Field resulting in the death of one person and serious injuries to 12 others. Drilling into or intersecting sockets was the cause of the accidents in the mines.

A list of accidents with a brief account of each, which occurred outside the Kolar Gold Field Mining Area, is given in Appendix II.

Departmental action in connection with Accidents.—In all the 9 accidents that occurred on the Kolar Gold Field, Departmental action was taken. The mestris responsible for 8 of them were suspended from working as such for periods varying from 1 to 3 months and the two persons concerned in the other accident were fined Rs. 10 and Rs. 7-8-0 respectively.

Explosives Imported into the State.—The following statement shows the quantity of explosives imported into the State during 1931 compared with the previous year:—

Description		1931	1930	Increase	Decrease
Gunpowder ...	lbs.	11,495	10,183	1,312	...
Percussion Caps ...	No.	1,216,923	1,529,474	...	312,551
Dynamite ...	lbs.	121,000	162,550	...	41,550
Blasting gelatine ...	do	269,500	240,800	28,700	...
Gelignite ...	do	54,500	27,500	27,000	...
Safety Fuse ...	Coils.	171,000	260,500	...	89,500
Detonators ...	No	1,358,500	1,670,000	...	311,500
Dynamite Caps ...	do	...	500	...	500
Loaded Rifle cartridges ...	do	21,885	26,756	...	4,871
Do Gun do ...	do	55,032	108,503	...	53,471
Do Revolver do ...	do	1,050	2,650	...	1,600
Do Pistol do ...	do	500	400	100	...
Empty Rifle do ...	do	...	3,000	...	3,000
Do Gun do ...	do	9,050	14,100	...	5,050
Sulphur ...	lbs.	13,391	52,899	...	39,508
Blasting Powder ...	do	...	525	...	525

Explosives confiscated to Government.—No explosives were confiscated to Government during the year.

Enquiries.—A number of enquiries of a varied nature was received during the year from the District officials, private individuals and firms. These were all dealt with.

General.

Special rules for small mines.—A set of special rules framed under sections 21 and 37 of the Mysore Mines Regulation, IV of 1906, to govern Small Mines worked on the open cast system or by other methods was approved by Government and the same was published for general information in the year.

OOREGAUM, K.G.F.,
15th September 1932.

C. E. SURYANARAYANA RAU,
Chief Inspector of Mines in Mysore.

Statement of capital employed, etc., in Gold Mines working in the

1930

NAME OF MINING COMPANY	Nominal Capital £ Stg.	Shares: Number issued	Shares: Par Value-Shillings	Shares: December Prices Min.	Shares: December Prices Max.	Paid-up Capital: Per Share-Shillings	Paid-up Capital: Total £ Stg.	Dividends Paid: Amount £ Stg.	Dividends Paid: Percentage of Paid-up Capital	Fine Gold and Silver Produced: Mint Fine Gold Ounces	Fine Gold and Silver Produced: Value £ Stg.	Fine Gold and Silver Produced: Mint Fine Silver Ounces	Fine Gold and Silver Produced: Value £ Stg.	Fine Gold and Silver Produced: Total value of Fine Gold and Silver £ Stg.	Royalty Payable to Government: At 5 per cent on the value of gold and silver produced less refining charges £ Stg.	Royalty Payable to Government: At 2½ per cent on the dividends declared £ Stg.	Royalty Payable to Government: Total £ Stg.
A. DIVIDEND PAYING.											(a)						
ysore Gold Mining Company, Limited	610,000	1,220,000	10	10/9	11/9	10	610,000 0 0	76,250 0 0	12½	101,826·978	430,850 4 10	3,984·618	327 19 2	431,178 4 0	21,460 2 7	1,906 5 0	23,366 7 7
hampion Reef Gold Mines of India, Limited	260,000	520,000	10	6/9	7/9	10	260,000 0 0	26,000 0 0	10	62,642·457	265,216 2 3	3,862·680	348 8 2	265,564 10 5	13,205 14 1	650 0 0	13,855 14 1
oregum Gold Mining Company of India, Limited* ...	Ord. 290,000	481,544	10	4/-	5/-	10	240,772 0 0	.....	...	63,675·861	269,625 1½ 1	4,096·280	381 19 4	270,007 11 5	13,431 12 8	150 0 0	13,581 12 8
	Pref. 120,000	240,000	10	7/6	8/6	10	120,000 0 0	6,000 0 0	5								
undydroog Mines, Limited	283,000	566,000	10	14/9	15/9	10	283,000 0 0	70,750 0 0	25	78,570·038	333,888 14 10	4,640·050	410 6 1	334,299 0 11	16,761 13 8	1,768 15 0	18,530 8 8
alaghat Gold Mines, Limited	.....	.....	...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....
Total ...	1,563,000	3,027,544	...	...	..	...	1,513,772 0 0	179,000 0 0	11·82	306,715·304	1,299,580 14 0	16,583·628	1,468 12 9	1,301,049 6 9	64,859 3 0	4,475 0 0	69,334 3 0
																Increase for 1931 ...	
																Decrease for 1931 ...	
B. ODUCING GOLD, BUT NOT PAYING DIVIDENDS.																	
alaghat Gold Mines, Limited	Ord. 106,300	212,530	10	2/3	3/3	10	106,265 0 0	.....	...	22,418·572	94,979 15 9	1,260·360	116 11 10	95,096 7 7	4,726 3 11	.....	4,726 3 11
	Pref. 47,700	95,400	10	6/3	7/3	10	47,700 0 0	.....	...								
Total ...	154,000	307,930	...	...	...	...	153,965 0 0	....	...	22,418·572	94,979 15 9	1,260·360	116 11 10	95,096 7 7	4,726 3 11	.....	4,726 3 11
																Increase for 1931 ...	
																Decrease for 1931 ...	
C. WORKING, BUT NOT PRODUCING GOLD. Nil.	.....	.....	...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....
Total ...	.....	.....	...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....
Total of A, B and C ...	1,717,000	3,335,474	...	...	...	...	1,667,737 0 0	179,000 0 0	10·73	329,133·876	1,394,560 9 9	17,843·988	1,585 4 7	1,396,145 14 4	69,585 6 11	4,475 0 0	74,060 6 11
																Increase for 1931 ...	
																Decrease for 1931 ...	

State of Mysore for the years 1930 and 1931.

Table 1.

1931

Nominal Capital £ Stg.	Shares: Number issued	Shares: Par Value-Shillings	Shares: December Prices Min.	Shares: December Prices Max.	Paid-up Capital: Per Share-Shillings	Paid-up Capital: Total £ Stg.	Dividends Paid: Amount £ Stg.	Dividends Paid: Percentage of Paid-up Capital	Fine Gold and Silver Produced: Mint Fine Gold Ounces	Fine Gold and Silver Produced: Value £ Stg. (a)	Fine Gold and Silver Produced: Mint Fine Silver Ounces	Fine Gold and Silver Produced: Value £ Stg.	Fine Gold and Silver Produced: Total value of Fine Gold and Silver £ Stg.	Royalty payable to Government: At 5 per cent on the value of gold and silver produced less refining charges £ Stg.	Royalty payable to Government: At 2½ per cent on the dividends declared £ Stg.	Royalty payable to Government: Total £ Stg.	Total dividends paid up to date £ Stg.	REMARKS
610,000	1,220,000	10	6/6	7/6	10	610,000 0 0	61,000 0 0	10	95,987·618	449,482 18 4	4,342·55	413 2 6	449,896 0 10	22,348 9 6	1,525 0 0	23,873 9 6	(b) 10,381,769 13 11	(a) Values are taken from Companies' reports.
260,000	520,000	10	9/-	9/6	10	260,000 0 0	39,000 0 0	15	65,702·743	308,171 12 8	5,311·10	465 18 10	308,637 11 6	15,326 5 8	975 0 0	16,301 5 8	4,798,966 8 6	(b) In addition to this, the Company paid as dividends in 1889, a sum of £87,500, being the realization by sale of property to the Champion Reef Company.
Ord. 200,000	481,544	10	2/9	3/9	10	240,772 0 0	6,019 6 0	2½	62,995·856	300,239 12 0	5,163·21	468 14 0	300,708 6 0	14,907 7 11	525 9 8	15,432 17 7	3,786,234 18 6	
Pref. 120,000	240,000	10	5/8	6/8	10	120,000 0 0	15,000 0 0	12½										
283,000	566,000	10	16/3	17/3	10	283,000 0 0	77,825 0 0	27½	79,935·841	377,902 0 11	6,081·56	548 11 0	378,450 11 11	18,961 7 2	1,945 12 6	20,906 19 8	(c&d) 3,073,379 9 4	(c) In addition to this amount, £8,843-15-0 on the agreed valuation of 2s. 6d. per share on 70,750 shares of the Jibutil Gold Mines of Anantapur, Ltd., were distributed on 13th December 1911.
Ord. 106,300	212,530	10	-/6	1/6	10	106,265 0 0	10,626 10 0	10	25,811·966	122,895 18 0	1,706·43	151 2 1	123,047 0 1	6,075 4 8	504 3 3	6,579 7 11	429,690 17 0	(d) Includes £140,652-19-10 paid by the then Nundydroog Gold Mining Co., Ltd.
Pref. 47,700	95,400	10	3/-	4/-	10	47,700 0 0	9,540 0 0	20										
1,717,000	3,335,474	...	...	...	...	1,667,737 0 0	219,010 16 0	13·13	330,434·024	1,558,692 1 11	22,604·85	2,047 8 5	1,560,739 10 4	77,618 14 11	5,475 5 5	83,094 0 4	22,470,041 7 8	*Paid dividends on preferential shares only, for 1930.
154,000	307,930	...	...	..	...	153,965 0 0	40,010 16 0	1·31	23,718·720	259,111 7 11	6,021·22	578 15 8	259,690 3 7	12,759 11 11	1,000 5 5	13,759 17 4	.....	
.....	.....	...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	
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.....	.....	...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	
.....	.....	...	...	...	...	.....	.....	...	.....	.....	.....	.....	.....	.....	.....	.....	.....	
1,717,000	3,335,474	...	...	...	...	1,667,737 0 0	219,010 16 0	13·13	330,431·024	1,558,692 1 11	22,604·85	2,047 8 5	1,560,739 10 4	77,618 14 11	5,475 5 5	83,094 0 4	(e) 22,520,274 4 8	(e) Includes £30,632-11-11, paid by the Coromandel Gold Mining Co., of India, Ltd., and £19,600-5-6 paid by the Mysore West and the Mysore Wynaad Gold Companies, Ltd.
.....	.....	...	...	...	...	.....	40,010 16 0	1·31	1,300·148	164,131 12 2	4,760·862	462 3 10	164,593 16 0	8,033 8 0	1,000 5 5	9,033 13 5	.....	
.....	.....	...	...	...	...	.....	.....	..	.....	.....	.....	.....	.....	..	.....	.....	.....	

Machinery and Plant in use at Mines in the

SPECIFICATIO

NAME AND SITUATION OF MINE	STEAM POWER																									LAMPS	
	BOILERS						STEAM ENGINES																				
	Number		Aggregate Area and Capacity (of those in use)				Winding and Hauling			Pumping			Air Compression			Locomotives			For other purposes			Total Maximum B. H. P. developed		
	Total	In use	Grate Area. Sq. feet	Heating Surface. Sq. feet	Maximum Evaporative Capacity. Gallons per hour	Actual Evaporation Gallons per hour	Number Total	Number In use	Maximum B. H. P. developed	Number Total	Number In use	Maximum B. H. P. developed	Number Total	Number In use	Maximum B. H. P. developed	Number Total	Number In use	Maximum B. H. P. developed	Number Total	Number In use	Maximum B. H. P. developed		Number	Equivalent connection in Kilowatts
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District ...	1	1	10·00	183·00	120·00	50·00	...	...	..	...	...	...	2	..	..	...	...	...	...	..	..	...	3,015	106·76
2. The Champion Reef Gold Mine do do	14	4	182·00	7,640·00	2,840·00	994·00	3	2	8,000	...	...	...	...	...	...	...	...	...	...	...	...	8,000	1,710	55·02
3. The Ooregum Gold Mine do do	11	5	186·50	5056·00	2,741·00	2,065·00	4	4	1,831	...	...	...	1	...	...	...	...	...	...	...	...	1,831	1,880	83·40
4 The Nundydroog Gold Mine do do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,886	60·00
5. The Balaghat Gold Mine do do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	810	31·17
6. The United Steel Cos,, Ltd. (Workington Iron and Steel Branch), Shimoga Taluk, Shimoga District.	13	..	...	..	...	...	...	...	...	..	...	...	...	...	...	10	...	...	3	...	...	...	...	...
7. The Mysore Chromite, Ltd., Mysore Taluk, Mysore District, Arsikere Taluk, Hassan District.	3	3	19·30	399·00	130·00	115·00	2	2	14	...	...	...	...	...	...	...	...	...	...	...	...	14	100	4·40
Total ...	42	13	397·80	13,268·00	5,831·00	3,224·00	9	8	9,845	...	..	...	3	...	...	10	...	...	3	...	...	9,845	9,401	336·75
Total for 1930 ...	45	17	399·80	13,778·00	6,174·50	3,291·50	10	7	9,799	5	4	14	3	...	.	10	...	..	4	1	10	9,799	9,667	349·20

Boilers classed according to Type

TYPE OF BOILER	NUMBER		AGGREGATE AREA A	
	Total	In use	Grate Area. Sq. feet	Heating Surface. Sq. feet
Cornish	...	...	...	...
Lancashire	15	4	166·00	3,840·00
Vertical	4	4	43·00	511·00
Horizontal	1	1	10·00	169·00
Locomotive	14	1	6·30	198·00
Galloway	...	...	...	...
Babcock	8	8	172·50	8,556·00
Total ...	42	13	397·80	13,268·00
Total for 1930 ...	45	17	399·80	13,778·00

the State of Mysore during the year 1931.

CATION No. 1.

Table 2.

ELECTRICITY																	
LAMPS		MOTORS															
		Cauvery Power								Kolar Mines Power							
Equivalent connection in Kilowatts	Annual consumption B. T. U.	Number Total	Number In use	Used for	Nominal H. P.	Rating in H. P.	Average constant H. P. absorbed	Annual consumption B. T. U.		Number Total	Number In use	Used for	Nominal H. P.	Maximum H. P. developed	Annual consumption B. T. U.	REMARKS	
106·76	157,012	44	43	7 Air Compressors ... .. 4 Mill ... ... 7 Ventilating Fans .. ... 9 Pumps ... ... 4 Slimes Plant ... ... 10 Tube Mills ... .. 1 Mortar Mill ... ... 1 Tramming	4,918·50	4,268	2,985	19,503,700	60	52	3 Compressors ... ... 2 Converter Set ... ... 2 Fans ... ... 2 Electric Locomotives ... ... 3 Stone Crushers ... ... 12 Hoists ... ... 1 Fitting Shop ... ... 3 Saw Mills ... ... 1 Cyanide Dept. (Driving machines) ... 5 Pumps ... . 2 Blowers ... ... 2 Endless Ropeways ... ... 2 Motor Generator Set ... ... 1 Magnetic Separator ... ... 1 Mill ... ... 2 Tube Mills ... . 3 Slimes Plant ... ... 2 Furnaces ... ... 3 Cranes	8,269·75	3,798·00	3,916,621		
55·02	121,115	32	32	6 Air Compressors ... ... 2 Mill ... ... 5 Ventilating Fans ... ... 8 Pumps ... ... 2 Slimes Plant ... ... 3 Tube Mills ... ... 2 Filter Plant ... ... 1 Dump Retreatment ... ... 1 Storage Battery ... ... 1 Cooling ... ... 1 Endless ropeway	4,059·90	3,688	2,718	17,762,000	42	42	4 Compressors ... ... 2 Stone Crushers ... ... 14 Pumps ... ... 1 Ropeway ... ... 7 Hoists ... ... 1 Fitting Shop ... ... 1 O'Donovan Furnace .. 1 Machine Tool ... ... 2 Circular and Band Saws ... ... 4 Dump retreatment and sands plant ... 1 Mortar Mill ... ... 1 Electric Crane ... ... 1 Booster ... ... 2 Blowers	3,447·50	2,998·50	2,419,621		
83·40	183,683	33	30	6 Air Compressors ... ... 1 Mill ... ... 2 Cyanide and Slimes Plant ... 13 Pumps ... ... 5 Ventilating Fans ... ... 2 Tube Mills ... . 1 Belt Conveyer	4,782·50	3,699	2,841	18,570,000	49	49	22 Hoists and Accessories ... .. 3 Compressors ... ... 1 Picking Floor ... ... 1 Fitting Shop ... ... 1 Carpenters' Shop... ... ... 1 Extractor House ... ... 1 Assay Office Crusher ... ... 1 Concentrating Table ... ... 1 Printing Press .. ... 1 Mortar Mill ... ... 2 Endless Ropeways ... ... 4 Pumps ... ... 2 Mills ... . 1 Cyanide works ... . 1 Blacksmith Shop Fan ... ... 4 Dairy ... ... 1 Zinc Lathe ... .. 1 Jumper shop	4,332·50	4,883·50	4,029,772		
60·00	184,529	25	25	1 Slimes Plant ... ... 6 Air Compressors ... ... 2 Mill ... ... 8 Pumps ... ... 4 Tube Mills ... ... 1 Vortex Mixer ... ... 3 Ventilating Fans	3,459·50	2,964	2,032	13,672,200	59	56	25 Hoists and Accessories ... ... 2 Stone Breakers ... ... 3 Band and Circular Saws ... ... 8 Pumps... ... ... 3 Fitting Shop ... ... 1 Assay Office .. .. 1 Mortar Mill ... ... 1 Slimes Plant ... ... 1 Ventilating Fan ... ... 1 Picking Floor ... ... 1 Smith Shop .. .. 1 Moulding Shop ... . 1 Crane ... ... 2 Endless Ropeways ... ... 1 Reconcentration Plant ... ... 2 Compressors .. .. 1 Battery charging set ... ... 1 Arc welder	3,042·25	7,411·25	5,856,934		
31·17	35,732	23	23	4 Air Compressors .. ... 10 Pumps ... ... 2 Mill ... ... 3 Slimes Plant ... ... 2 Ventilating Fans .. ... 2 Tube Mills	1,622·50	1,484	1,019	6,658,500	20	20	1 Fitting Shop ... ... 4 Slimes Plant ... ... 2 Saw Mills ... ... 1 Stone Breaker ... . 8 Hoists ... ... 3 Pumps ... . 1 Compressor	1,655·00	2,072·00	1,145,669		
...	...	...	...	3 Pumps	...	...	...	...	...	...	...	...	...	...	...		
4·40	18,940	4	4	1 Workshop	88·00	57	73	87,069	...	...	...	...	...	...	...		
336·75	651,011	161	157	...	18,930·90	16,160	11,728	76,253,469	230	219	...		25,747·00	21,163·25	17,368,617		
349·20	603,725	164	158	...	18,618·40	15,846	12,111	73,090,088	218	207	...		24,880·17	20,414·42	15,885,077		

to Type.

ATE AREA AND CAPACITY (of those in use)		
g Surface. feet	Maximum Evaporative Capacity. Gallons per hour	Actual Evaporation. Gallons per hour
...	...	...
3,840·00	2,276·00	1,324·00
511·00	365·00	292·00
163·00	30·00	28·00
198·00	80·00	70·00
...	...	...
8,556·00	3,080·00	1,610·00
13,268·00	5,831·00	3,324·00
13,778·00	6,174·50	3,291·50

Machinery and Plant in use at Mines in the State of Mysore during th

SPECIFICATION No. 2.

NAME AND SITUATION OF MINE	MINING MACHINERY																																	
	Winding Engines and Hoists																Pumping Engines and Pumps (Mine pumps only) (a)										Air Compressors					
	Surface								Underground				Miscellaneous				Steam				Electric				Compressed Air				Steam			Electric		
	Steam			Electric			Compressed Air		Electric		Compressed Air		Electric		Compressed Air		Number				Number				Number				Number			Number		
	Number		Maximum B. H. P. developed	Number		Maximum B. H. P. developed	Number		Maximum B. H. P. developed		Number		Maximum B. H. P. developed		Number		Maximum B. H. P. developed		Total	In use	Maximum capacity in gallons per hour	Average quantity of water pumped. Gallons per hour	Total	In use	Maximum capacity in gallons per hour	Average quantity of water pumped. Gallons per hour	Total	In use	Maximum capacity in gallons per hour	Average quantity of water pumped. Gallons per hour	Total	In use	Average quantity of free air delivered per minute. Cubic feet	Total	In use	Average quantity of free air delivered per minute Cubic feet
	Total	In use		Total	In use		Total	In use		Total	In use			Total	In use																				
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District	...	...	...	5	5	3,570	7	7	1,020	5	5	557	21	19	296	2	2	8	...	...	...	...	...	...	...	9	9	61,860	22,710	40	18	40,000	7,500	2	...	...	10	9	14,995
2. The Champion Reef Gold Mine do do ...	2	2	8,000	1	1	250	1	1	15	1	1	1,200	24	24	987	2	2	25	1	1	20	...	...	...	...	7	7	34,023	2,309	14	14	11,114	1,376	...	...	...	7	7	12,174
3. The Ooregum Gold Mine do do ...	4	3	1,775	4	4	1,345	1	1	56	4	4	2,525	26	23	375	3	3	95	...	...	...	...	...	...	...	7	7	54,000	12,117	13	6	9,000	900	1	...	...	7	7	9,934
4. The Nundydroog Gold Mine do do ...	1	...	...	3	3	3,100	1	1	400	4	4	1,080	22	22	307	3	3	55	2	2	30	...	...	...	...	9	8	94,980	18,018	13	13	19,500	2,000	...	...	..	8	8	10,593
5. The Balaghat Gold Mine do do ...	...	...	...	2	2	710	...	...	...	6	6	1,165	6	5	98	...	...	...	1	1	8	..	...	...	...	13	13	52,650	10,940	3	3	6,000	117	...	...	...	5	5	4,493
Total ...	7	5	9,775	15	15	8,975	10	10	1,491	20	20	6,527	99	93	2,063	10	10	183	4	4	58	..	...	...	...	45	44	297,513	66,194	83	54	75,504	11,893	3	...	...	37	36	52,189
Total for 1930 ...	8	5	9,775	15	14	10,525	10	10	1,491	20	20	6,337	94	86	2,028	10	10	183	3	2	18	1	...	...	...	43	42	310,125	72,284	89	52	70,214	10,079	3	...	...	36	35	51,583

Table 3.

REDUCING MACHINERY AND TAILINGS PLANT

CRUSHING, GRINDING AND AMALGAMATING										TUBE MILLS			CYANIDING												REMARKS
Rock breakers		Stamps											Sands Plant				Slimes Plant								
Number		Number		Weight in lbs. of each head	Number of drops per minute	Height of drop in inches	Depth of discharge in inches	Screens		Number			Number of Vats		Total Capacity of Vats. Tons	Total Capacity of Plant for 24 hours. Tons	Number of Collectors		Number of Agitators			Vacuum Filters	Total Capacity of Plant for 24 hours. Tons	
In use	Type	Total	In use					Kind of screen	Number of holes per sq. inch	Total	In use	Size	Total	In use			Total	In use	Total	In use	Type	Type		
8	Bigelow Jaw crusher	100	100	1,150	97	8·50	3·00	Woven wire	64	6	4	18′×6′	...	...	...	...	5	5	7	7	Air and Mechanical.	Butters & Moore	750 350	(a) Not including pumps for mills, cyanide works, etc.
2	Blake Marsden	120	30	1,250	96	8·00	3·00	Do and Punched Screen	16 9	7	7	19′×4½′	...	...	...	...	4	4	9	9	Brown Pachuca	Butters and Oliver	700 270	
4	2 Do 2 Gates	80	70	1,300	96	9·00	2·50	Woven wire	9	4	4	(3) 22′×5½′ (1) 18′×6′	...	..	...	..	5	5	4	4	Mechanical	Butters	1,100	
2	Jaw ...	53	53	1,070	99	7·50	2·00	Do ..	256 & No. 9	4	3	(2) 16′×6′ (1) 8′×6′	8	6	1,760	165	6	6	6	6	Brown Pachuca	Do	459	
1	Blake Marsden	30	20	1,050	98	8·00	2·50	Do ...	36, 64 & 256	2	2	16′×5⅝′ 22′×4½′	...	...	...	...	4	3	2	2	Mechanical	Moore ...	250	
12	...	383	273	1,164	97	8·20	2·60	...	...	23	20	...	8	6	1,760	165	24	23	28	28	...	...	3,879	
13	...	402	275	1,130	99	8·10	2·60	...	...	23	19	...	14	13	2,960	534	24	23	28	24	...	..	3,947	

Statement of work done and number of persons employed at Mines working in the State of Mysore d

NAME AND SITUATION OF MINE	MINING			TONS OF MATERIAL TREATED							BELOW GROUND			
					ORE					TAILINGS				
	Feet driven (including shafts sunk)	Shafts sunk (feet)	Stoping (cubic fathoms)	Total material excavated (tons)	Raised to surface	Percentage sorted out as waste	Ore obtained	Milling and amalgamating: Crushed by stamps and tube mills	Milling and amalgamating: Crushed per stamp per 24 hours	Sands and slimes treated by cyanide	Aggregate amount treated in mills and by tailings process	Europeans	Anglo-Indians	Indians	Total
GOLD.															
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District...	11,892·00	725·00	6,225·76	203,930·17	182,102·00	0·31	180,254·00	(a)182,731·00	8·33	182,731·00	365,462·00	40	39	3,409	3,488
2. The Champion Reef Gold Mine ... do do ...	8,947·00	110·00	2,675·39	112,664·69	99,420·00	10·01	89,465·00	(b) 98,930·00	10·78	327,156·00	426,086·00	33	16	1,522	1,571
3. The Ooregum Gold Mine ... do do ...	5,362·00	365·00	1,365·85	116,804·26	(c)152,854·00	11·72	134,943·00	(d)135,441·00	13·60	396,346·00	531,787·00	40	17	1,971	2,028
4. The Nundydroog Gold Mine ... do do ...	9,077·50	223·00	4,294·30	130,300·79	127,212·00	8·72	116,114·00	(e)123,039·00	10·58	228,524·00	351,563·00	31	30	1,884	1,945
5. The Balaghat Gold Mine ... do do ...	4,750·50	573·00	1,460·88	55,067·20	44,085·00	6·23	41,310·00	(f) 41,850·00	6·49	41,850·00	83,700·00	8	13	901	922
Total for Gold Mines ...	40,029·00	1,996·00	19,022·18	618,767·11	605,673·00	6·99	562,086·00	581,991·00	10·05	1,176,607·00	1,758,598·00	152	115	9,687	9,954
OTHER MINERALS.															
MANGANESE.															
6. The United Steel Cos., Ld., Kumsi Block, Shimoga District, M. L. No. 142*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7. Mr. H. D. Coggan, Keshapur Block Holalkere Taluk, Chitaldrug District P. L. No. 727	...	...	...	...	...	...	471·80	...	...	...	...	...	...	2	2
8. The Mysore Iron Mines (Government areas) Bhadigund Block Channagiri Taluk, Shimoga District	...	...	...	...	...	...	612·64	...	...	...	...	...	...	...	...
9. Messrs. Oakley, Duncan & Co., Ld., Mahadevpur Block, Holalkere Taluk, Chitaldrug District. M. L. No. 173	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
CHROME.															
10. The Mysore Chromite, Ld., Shinduvalli Mine, Mysore Taluk, Mysore, District. M. L. No. 147	522·00	153·00	93·00	3,888·00	2,018·76	...	(g) 2,452·02	...	...	..	...	...	...	52	52
Pensamudra Block, Hassan Taluk, Hassan District. M. L. No. 174 ...	...	...	...	...	...	...	1,905·12	...	...	...	...	...	...	2	2
11. The Government Chrome Committee (Government areas). Byrapur Mine, Channarayapatna Taluk, Hassan District	...	...	...	...	...	...	609·28	...	...	...	...	...	...	...	...
Tallur Mine, Mysore Taluk, Mysore District	40·00	15·00	0·58	140·53	1,075·20	...	1,005·20	...	...	...	...	...	...	4	4
12. Messrs. Oakley, Duncan & Co. Ld., Sunkadahalli, Arsikere Taluk, Hassan District. M. L. No. 172	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13. Messrs. V. Manickavelu Mudaliar & Son, Bhaktarhalli Block, Channarayapatna Taluk, Hassan District. M. L. No. 158	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Chikkonhalli Block, Channarayapatna Taluk, Hassan District. M. L. No. 159	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Jambur Block, Channarayapatna Taluk, Hassan District. M. L. No. 160	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
MAGNESITE.															
14. Messrs. The Tata Iron & Steel Co. Ld., Dodkanya Block, Nanjangud Taluk, Mysore District. M. L. No. 150	...	...	...	...	...	...	397·60	...	...	...	...	...	...	...	...
IRON ORE.															
15. The Mysore Iron Mines (Government areas), Kemmangundi, Tarikere Taluk, Kadur District	...	...	...	...	...	...	17,615·84	...	...	...	...	...	...	...	...
Thanigebyle Quarries, Tarikere Taluk, Kadur District	...	...	...	...	...	...	3,064·32	...	...	...	...	...	...	...	...
LIMESTONE.															
16. The Mysore Iron Mines (Government areas), Kondli Limestone Quarries, Chiknayakanhalli Taluk, Tumkur District	...	...	...	...	...	...	1,197·28	...	...	...	...	...	...	...	...
Gangur Limestone Quarries, Shimoga and Channagiri Taluks, Shimoga District	...	...	...	...	...	...	986·72	...	...	...	...	...	...	...	...
KAOLIN.															
17. The Kolar Brickmaking Co., Ltd., Karadibande Block, Malur Taluk, Kolar District. M. L. No. 154	...	...	...	...	...	...	2,281·15	...	...	...	...	...	...	...	...
Thinnalu Block, Hoskote Taluk, Bangalore District. M. L. No. 164...	...	...	...	...	...	...	630·25	...	...	...	...	...	...	...	...
18. Mr. C. Abdul Rahim's Block Kurubarahalli Bowringpet Taluk, P. L. No. 726/722	...	...	...	...	...	...	11·20	...	...	...	...	...	...	...	...
19. Mr. B. S. Shabuddin's Block, Doddurkarapanahalli, Bowringpet Taluk, Kolar District	...	...	...	...	...	...	4·48	...	...	...	...	...	...	...	...
SOAPSTONE.															
20. Mr. J. Padmarajappa's Block, Tiptur Taluk, Tumkur District. C. L. No. 109	...	...	...	...	...	...	11·20	...	...	...	...	...	...	...	...
21. Mr. T. L. Narasinga Bhan's Block, Tiptur Taluk, Tumkur District. C. L. No. 114/110	...	...	...	...	...	...	70·56	...	...	...	...	...	...	...	...
22. Mr. G. Chennaveerappa's Block, Tiptur Taluk, Tumkur District. C. L. No. 111	...	...	...	...	...	...	26·88	...	...	...	...	...	...	...	...
Total for other Mines ...	562·00	168·00	93·58	4,028·53	3,093·96	...	33,413·54	...	...	...	...	..	...	60	60
Grand Total ...	40,591·00	2,164.00	19,115·76	622,795·64	608,756·96	6·99	595,499·54	581,991·00	10·05	1,776,607·00	1,758,598·00	152	115	9,747	10,014

PERSONS EMPLOYED									REMARKS
	On Surface								
Tons excavated per man per annum	Europeans	Anglo-Indians	Indians			Total	Tons handled per person per annum	Total number of persons employed below ground and on surface	
			Males	Females	Children under 12 years				
58·47	50	81	1,740	242	128	2,241	163·08	5,729	(a) Includes 2,477 tons from waste rock dumps and stock.
71·72	40	56	1,398	352	147	1,993	218·79	3,564	(b) Includes 9,465 tons from waste rock dumps and stock.
57·60	44	56	1,381	232	90	1,755	303·01	3,783	(c) Excess due to accumulation of rock underground by falls of ground, shaling off, bursting, etc.
66·99	36	70	1,419	206	34	1,765	199·19	3,710	
59·73	19	20	587	57	47	680	123·09	1,602	(d) Includes 208 tons from waste rock dumps and stock and 346 tons crushed by Nundydroog; 56 tons put to reserve.
62·16	189	285	6,425	1,089	446	8,434	208·51	18,388	
									(e) Includes 6,116 tons from waste rock dumps and stock and 809 tons crushed by Ooregum.
...	1	1	12	...	...	14	...	14	(f) Includes 540 tons pebbles.
...	...	...	21	14	...	35	...	37	*Only a portion of the stock of ore sold.
...	...	...	30	10	...	40	...	40	
...	...	...	1	...	...	1	...	1	Only a portion of the stock of ore sold.
...	1	4	21	10	60	96	...	148	(g) Includes 488·60 tons collected on surface.
..	...	2	25	12	10	49	...	51	Underground work also is being done on a small scale.
...	...	...	11	14	8	33	...	33	
...	...	...	15	8	10	33	...	37	
...	...	...	1	...	...	1	...	1	
...	...	...	3	2	5	10	...	10	
...	...	...	1	2	4	7	...	7	
...	...	...	2	2	3	7	...	7	
	...	...	10	11	4	25	...	25	
...	...	...	100	5	...	105	...	105	
...	...	...	35	5	...	40	...	40	
...	...	...	60	20	...	80	...	80	
...	...	...	40	10	...	50	...	50	
...	...	...	4	4	...	8	...	8	
...	...	...	2	2	...	4	...	4	
...	...	...	2	...	...	2	...	2	
...	...	...	1	...	...	1	...	1	
...	...	...	2	...	...	2	...	2	
...	...	...	14	...	...	14	...	14	
...	...	...	4	...	...	4	...	4	
...	2	7	417	131	104	661	...	721	
62·16	191	292	6,842	1,220	550	9,095	...	19,109	
63·39	192	286	7,009	1,496	555	9,528	220·84	18,925	

Statement of quantity and cost of materials consum

NAME AND SITUATION OF MINE	Fuel						Electric Power				Timber			Granite			Cement			Blasting Gelatine		Dynamite and other Explosives		D
	Indian Coal		Firewood				Cauvery Scheme		Kolar Mines															
	Tons used	Cost	Tons used	Cost	Total Cost	Cost per Ton milled	Total Cost	Cost per Ton milled	Total Cost	Cost per Ton milled	Quantity	Cost	Cost per Ton milled	Quantity	Cost	Cost per Ton milled	Quantity	Cost	Cost per ton milled	Quantity	Cost	Quantity	Cost	Number of boxes (100 per box)
		£ Stg.		£ Stg.	£ Stg.	Shillings	£ Stg.	Shillings	£ Stg.	Shillings	C. ft.	£ Stg.	Shillings	Tons.	£ Stg.	Shillings	Tons	£ Stg.	Shillings	lbs.	£ Stg.	lbs.	£ Stg.	(a)
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District	1,481·12	2,035·12	...	...	2,035·12	0·22	92,858·07	3·60	10,617·17	1·16	198,592	17,342·44	1·90	8,512·00	875·58	0·10	2,872·66	11,894·04	1·30	104,340	8,047·58	48,257	3,351·92	4,393
2. The Champion Reef Gold Mine do do	6,409·37	8,530·33	324·28	260·58	8,790·91	1·78	29,615·68	5·99	6,124·54	1·24	37,153	6,397·67	1·29	2,809·69	238·81	0·05	1,739·05	6,987·28	1·40	51,841	4,212·04	39,319	2,672·43	1,467
3. The Ooregum Gold Mine do do	3,450·45	4,709·14	347·41	261·71	4,970·85	0·73	31,405·51	4·64	10,448·78	1·54	144,181	7,972·79	1·18	5,454·41	927·05	0·14	752·23	3,127·91	0·46	42,090	3,455·00	25,668	1,797·17	2,263
4. The Nundydroog Gold Mine do do	1,376·55	1,942·31	325·02	513·80	2,256·11	0·37	22,831·94	3·71	14,936·25	2·43	137,656	11,351·50	1·85	3,954·94	678·58	0·11	535·77	1,972·57	0·92	73,366	5,712·23	20,599	1,464·71	2,742
5. The Balaghat Gold Mine do do	599·89	915·62	135·46	79·95	995·57	0·48	10,887·90	5·20	3,078·42	1·47	38,145	3,247·54	1·55	5,686·66	627·02	0·30	282·95	1,189·42	0·57	40,420	3,152·38	18,415	1,301·68	1,218
6. The United Steel Cos., Ltd. (Workington Iron and Steel Branch), Shimoga Taluk, Shimoga District.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7. The Mysore Chromite, Ltd., Mysore Taluk, Mysore District and Arsikere Taluk, Hassan District.	...	...	213·27	135·50	135·50	...	398·89	...	...	...	175	32·87	...	...	...	...	...	...	...	2,210	296·03	...	...	122
8. The Byrapur and Tallur Mines (Government areas) Channarayapatna Taluk, Hassan District and Mysore Taluk, Mysore District.	...	...	...	...	...	...	...	...	...	...	75	11·10	...	...	...	...	...	...	...	...	...	79	9·07	8
9. Messrs. V. Manickavelu Mudaliar and Son's Block, Channarayapatna Taluk, Hassan District, Davangere and Jagalur Taluks, Chitaldrug District	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10. Messrs. The Tata Iron & Steel Co., Ltd., Mysore and Nanjangud Taluks, Mysore District.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	432	13·50	...
11. The Mysore Iron Mines (Government areas), Birur and Tarikere Taluks, Kadur District, Channagiri and Shimoga Taluks, Shimoga District and Chiknayakanhalli Taluk, Tumkur District.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	375	56·25	40
Total ...	13,317·38	18,132·52	1,345·44	1,051·54	19,184·06	0·65	127,997·99	4·38	45,205·16	1·55	555,977	46,355·91	1·59	26,417·70	3,347·04	0·12	6,182·66	25,171·17	0·87	314,267	24,865·26	153,144	10,666·73	12,25
Total for 1930	13,674·79	18,945·00	2,580·06	1,556·05	20,501·05	0·67	120,969·89	4·07	45,029·25	1·52	460,492	38,320·99	1·28	10,540·69	1,583·55	0·05	4,307·50	18,381·78	0·62	280,049	21,923·45	153,248	10,613·95	11,69

Average Wages per Month.

Class	Europeans	Indians
	£ Stg.	Rs.
Chief Underground Agents ...	90·42	...
Assistant Underground Agents...	42·12	...
Foremen ...	29·96	82·06
Timbermen ...	22·88	...
Pitmen ...	44·17	...
Machine mestris ...	...	36·34
Machine coolies ...	...	26·93
Handjumper mestris ...	...	33·68
Handjumper coolies ...	...	25·43
Blasters ...	...	37·16
Timber mestris ...	...	32·03

Mines working in the State of Mysore for the year 1931.

			Light						Mercury			Cyanide				Zinc			Steel								Pig Iron, Wrought and Iron Cast	
			Candles		Calcium Carbide														For drills and jumpers		Bars, plates and rolled sections, etc.		Castings made locally and imported					
Total Cost	Cost per Ton excavated	Cost per Ton milled	Quantity	Cost	Quantity	Cost	Total Cost	Cost per Ton milled	Quantity	Cost	Cost per Ton milled	Quantity	Cost	Cost per Ton treated	Cost per Ton milled	Quantity	Cost	Cost per Ton milled	Quantity	Cost	Quantity	Cost	Quantity	Cost	Total Cost	Cost per Ton milled	Quantity	Cost
£ Stg.	Shillings	Shillings	lbs.	£ Stg.	lbs.	£ Stg.	£ Stg.	Shillings	lbs.	£ Stg.	Shillings	lbs.	£ Stg.	Shillings	Shillings	lbs.	£ Stg.	Shillings	Tons	£ Stg.	Tons	£ Stg.	Tons	£ Stg.	£ Stg.	Shillings	Tons	£ Stg.
4,173·08	1·39	1·55	89,903	2,655·78	121,416	1,430·03	4,085·81	0·45	163	57·05	0·006	88,368	3,640·96	0·40	0·40	18,178	260·02	0·028	41·82	1,486·38	106·80	1,506·69	87·12	769·55	3,762·62	0·36	92·59	1,058·05
7,953·27	1·41	1·61	11,385	333·53	106,516	1,303·12	1,636·65	0·33	69	24·15	0·005	193,074	6,446·99	0·52	1·71	28,838	349·21	0·071	14·68	550·55	91·68	1,074·41	16·72	145·54	1,770·50	0·36	169·74	1,475·28
3,680·26	1·14	0·99	63,160	1,877·38	33,904	399·18	2,276·56	0·34	625	163·12	0·024	212,800	8,806·01	0·44	1·30	21,452	312·74	0·046	16·46	660·26	109·56	1,250·50	99·65	912·93	2,823·69	0·42	96·54	1,284·02
3,996·39	1·38	1·46	68,647	2,051·88	76,412	894·80	2,946·68	0·48	225	73·88	0·012	147,280	6,067·36	0·53	0·99	23,139	348·83	0·057	25·86	963·25	164·30	1,560·12	34·12	304·15	2,827·52	0·46	275·30	2,589·06
5,346·23	1·94	2·55	38,508	1,138·85	31,105	366·38	1,505·23	0·72	421	143·91	0·069	22,393	939·49	0·45	0·45	1,465	21·59	0·010	11·12	442·65	69·33	761·79	34·10	153·42	1,357·86	0·65	49·93	535·43
...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...
452·68	...	...	1,824	60·54	...	...	60·54	...	...	...	...	...	...	...	...	...	...	...	0·55	26·86	0·46	10·99	...	...	37·85	...	...	...
15·72	..	...	137	4·04	...	...	4·04	...	...	...	...	...	...	...	...	...	...	...	0·08	2·50	0·04	0·86	...	...	3·36	...	...	...
...	...	...	...	..	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20·03	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	82·00	1·13	...	...	1·13	...	...	...
89·08	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0·19	14·36	...	...	...	...	14·36	...	...	...
										...	...																	
726·74	1·39	1·48	273,564	8,122·00	369,353	4,393·51	12,515·51	0·43	1,503	462·11	0·016	663,915	27,900·81	0·47	0·96	93,072	1,292·39	0·044	110·76	4,146·81	624·17	6,166·49	271·71	2,285·59	12,598·89	0·43	684·10	6,941·86
516·43	1·35	1·32	246,748	7,571·23	289,026	3,448·54	11,019·77	0·37	2,235	668·12	0·023	653,104	27,082·61	0·45	0·91	100,347	1,637·12	0·055	112·04	4,752·73	526·15	6,742·52	257·04	2,705·39	14,200·64	0·48	670·10	8,397·24

Surface coolies	... ...	15·00
Firemen	... ...	17·45
Chief Cyanide Chemists and Reduction Officers.		97·92
Assistant Cyanide Chemists and Reduction Officers.		47·34
Millmen	...	19·20
Fitters	... ...	(4) 42·65 (5) 35·69
Average for above classes	...	£ 47·28 — Rs. 32·64
Average for above classes in 1930	...	£ 44·88 — Rs. 32·27

(1) Special pay for consulting Engineer for 5 Mines. Wages assumed at £85 for statistical purposes.
(2) First class.
(3) Second class
(4) Surface.
(5) Underground.

Table 5.

T IRON INGS	SHOES AND DIES			WAGES			
Cost per Ton milled	Quantity	Cost	Cost per Ton milled	Total Amount	Per Ton milled	Total of these costs per Ton milled	REMARKS
Shillings	Tons	£ Stg.	Shillings	£ Stg.	Shillings	Shillings	
0·116	51·38	796·26	0·09	174,049·87	19·05	30·33	(a) Includes 152·25 electric detonators.
0·298	17·17	276·30	0·06	110,319·72	22·30	38·49	
0·190	20·76	364·59	0·05	112,253·53	16·58	28·63	
0·421	18·12	351·92	0·06	107,246·11	17·43	30·16	
0·256	10·84	223·66	0·11	49,332·72	23·58	37·97	
...	...	...	...	1,242·98	...	...	Manganese.
...	...	...	...	4,935·00	...	...	Chromium.
...	...	...	...	588·39	...	...	Do.
...	...	...	...	655·84	...	...	Do.
...	...	..	...	241·08	...	...	Magnesite.
...	...	...	...	4,819·88	...	...	Iron ore and Limestone.
0·239	118·27	2,042·73	0·07	565,685·12	19·01	31·84	
0·283	157·63	2,552·74	0·09	543,813·36	17·60	29·34	

Table of gold production and working costs at the Gold Mines w

NAME AND SITUATION OF MINE	GOLD PRODUCTION																
	From Mills and Tube Mills (current ore)					By Cyanide Process (current ore)					Total Production (current ore)				Retreatment of T		
	Assay value of ore treated Shillings per ton	Fine Gold	Value		Percentage recovered	Assay value of tailings Shillings per ton	Fine Gold	Value		Percentage recovered	Fine Gold	Value		Percentage recovered	Assay value of tailings Shillings per ton	Fine Gold	
		Ounces	£ Stg.	Shillings per ton			Ounces	£ Stg.	Shillings per ton		Ounces	£ Stg.	Shillings per ton milled			Ounces	£ S
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District ...	44·35	69,127·37	293,791·32	32·16	72·50	11·90	24,743·06	105,158·01	11·51	96·72	93,870·43	398,949·33	43·67	98·46	...	...	...
2. The Champion Reef Gold Mine do do ...	50·28	45,445·18	193,142·02	39·05	77·66	10·57	11,312·82	48,079·49	9·72	91·96	56,758·00	241,221·51	48·77	96·99	4·08	8,260·27	35,10
3. The Ooregum Gold Mine do do ...	31·93	41,400·20	175,950·85	25·98	81·37	5·89	7,835·44	33,300·62	4·92	83·49	49,235·64	209,251·47	30·90	96·77	5·03	12,506·75	53,15
4. The Nundydroog Gold Mine do do ...	48·70	60,957·93	259,071·20	42·11	86·47	6·31	7,236·86	30,756·66	4·99	79·16	68,194·79	289,827·86	47·11	96·74	7·34	7,109·82	30,21
5. The Balaghat Gold Mine do do ...	53·22	23,344·54	99,214·30	47·41	89·09	4·75	1,974·95	8,393·54	4·01	84·45	25,319·49	107,607·84	51·43	96·63	...	...	
Total ...	44·03	240,275·22	1,021,169·69	35·09	79·70	8·58	53,103·13	225,688·32	7·76	90·39	293,378·35	1,246,858·01	42·85	97·82	5·08	27,876·84	118,4
Total for 1930 ...	43·29	230,599·13	980,046·30	33·10	76·46	10·01	64,019·93	272,082·15	9·19	91·60	294,618·46	1,252,128·45	42·29	97·69	5·19	30,346·79	128,9

Value taken at 85 shillings per oz.

orking in the State of Mysore during the year 1931.

Table 6.

ILINGS DUMPS			FROM OTHER SOURCES		TOTAL PRODUCTION FROM ALL SOURCES		WORKING COSTS							Total Expenditure (including administration)		REMARKS
							MINING			ORE TREATMENT (CURRENT ORE)		RETREATMENT OF TAILINGS, DUMPS				
Value										Milling, Tube-milling and Cyaniding		Tube-milling and Cyaniding				
	Shillings per ton	Percentage recovered	Fine Gold Ounces	Value £ Stg.	Fine Gold Ounces	Value £ Stg.	£ Stg.	Shillings per ton excavated	Shillings per ton milled	£ Stg.	Shillings per ton treated	£ Stg.	Shillings per ton treated	Shillings per ton of current ore treated	Shillings per ton milled including cost of retreatment of old dumps	
	...	...	(a) 2,171·21	9,227·64	96,041·64	408,176·97	201,512·14	19·76	22·06	44,159·53	4·83	...	...	33·95	33·95	
·15	3·03	75·40	(b) 702·04	2,983·67	65,720·31	279,311·33	134,629·36	23·90	27·22	20,806·79	4·21	32,829·18	2·88	39·67	46·31	Fine gold figures for twelve months supplied by the Mining Companies are subject to final adjustment.
·69	4·07	81·00	(c) 1,341·44	5,701·12	63,083·83	268,106·28	158,369·17	27·12	23·31	24,146·85	3·57	28,015·00	2·15	33·38	37·52	(a) Obtained from clean up of plant.
·74	5·73	78·05	(d) 4,531·04	19,256·92	79,835·65	339,301·52	157,212·72	24·13	25·55	29,393·03	4·78	17,917·82	3·40	36·73	39·64	(b) Recovered from copper bars.
	...	...	(e) 519·62	2,208·38	25,839·11	109,816·22	69,912·70	25·39	33·41	12,887·00	6·16	..	...	49·40	49·40	(c) Obtained from dismantled Tube Mill, amalgamating plates, copper bars and quartz mined by Nundydroog Mine.
6·58	3·98	76·44	9,265·35	39,377·73	330,520·54	1,404,712·82	721,636·09	23·32	24·80	131,393·21	4·52	78,762·00	2·65	36·49	39·20	(d) Obtained from dismantled part of old Mill and quartz mined by Ooregum Mine.
																(e) Obtained from base bar.
3·86	4·18	80·51	4,341·97	18,453·37	329,307·22	1,399,555·68	643,887·42	22·19	21·75	130,376·81	4·40	77,110·69	2·50	33·21	35·82	

Number and Classification of fatal and serious accidents at Mines working in the State of Mysore during the year 1931.

Table 7.

NAME AND SITUATION OF MINE	FALLS IN MINES				IN AND AT SHAFTS								MISCELLANEOUS BELOW GROUND										ON SURFACE					TOTAL DUE TO			
	Falls of hanging wall	Falls of sides or roof	Falls of ore from working places	Total falls	Over-winding	Ropes and chains breaking	Whilst ascending or descending by machinery	Falling into shaft from surface	Falling from part way down	Things falling from surface	Things falling from part way down	Total in and at shafts	Rockbursts	Suffocation by gases	Explosion due to misfires	By Explosives (other than misfires)	Falls of persons or things in Rises, Winzes and Stopes	On Inclined and Engine Planes	By Trams or Tubs, but not on Inclined and Engine Planes	By machinery	By other causes	Total miscellaneous below ground	By machinery	Boilers and steam pipes bursting, etc.	On Railways, Tramways or Aerial Ropeways belonging to Mine	Miscellaneous	Total on surface	Negligence	Recklessness	Unavoidable	Grand Total
Number of Class of Accident ...	i	ii	iii		iv	v	vi	vii	viii	ix	x		xi	xii	xiii	xiv	xv	xvi	xvii	xviii	xix		xx	xxi	xxii	xxiii					
Mysore Gold Mine, Bowringpet Taluk, Kolar District	...	...	...	0	...	...	2	...	2	...	...	4	12	...	2	...	7	...	2	1	19	43	3	...	3	2	8	6	6	43	55
Champion Reef Gold Mine do do	1	...	1	2	...	...	...	...	1	...	1	2	7	...	...	2	10	...	4	...	14	37	...	...	..	1	1	3	1	38	42
Ooregum Gold Mine do do	1	...	...	1	...	...	2	...	...	...	...	2	14	...	4	...	6	...	2	...	13	39	...	...	1	1	2	6	1	37	44
Nundydroog Gold Mine do do	1	...	...	1	...	...	1	..	...	...	...	1	10	1	...	...	6	...	2	2	9	30	...	...	1	4	5	4	2	31	37
Balaghat Gold Mine do do	...	...	...	0	...	...	1	...	1	...	1	3	7	...	1	...	2	...	2	...	2	14	...	...	...	...	0	3	0	14	17
Total ..	3	0	1	4	0	0	6	0	4	0	2	12	50	1	7	2	31	0	12	3	57	163	3	0	5	8	16	22	10	163	195
Number due to Negligence ...	1	0	0	1	0	0	4	0	1	0	1	6	0	0	6	1	3	0	3	0	1	14	0	0	0	1	1				
Number due to Recklessness ...	0	0	0	0	0	0	1	0	1	0	0	2	0	0	1	0	1	0	0	2	2	6	0	0	2	0	2				
Number due to Unavoidable ...	2	0	1	3	0	0	1	0	2	0	1	4	50	1	0	1	27	0	9	1	54	143	3	0	3	7	13				

Number of fatal and serious accidents per 1,000 persons employed at Mines working in the State of Mysore during the year 1931.

Table 8.

NAME AND SITUATION OF MINE	Number per 1,000 due to			Total per 1,000	Total per 1,000 for the year 1930	Total per 1,000 for the year 1929	REMARKS
	Negligence	Recklessness	Unavoidable				
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District	1·05	1·05	7·51	9·60	10·03	9·89	In these columns, in order to avoid large and misleading figures in the case of mines employing less than 1,000 persons, the actual figures obtained for these mines have been modified in the following way:—
2. The Champion Reef Gold Mine do do	0·84	0·28	10·66	11·78	10·96	15·78	
3. The Ooregum Gold Mine do do	1·59	0·26	9·78	11·63	11·49	14·02	
4. The Nundydroog Gold Mine do do	1·08	0·54	8·35	9·97	10·16	11·36	If the actual figure is less than the average (for all mines), it is inserted here.
5. The Balaghat Gold Mine do do	1·87	0·00	8·74	10·61	10·82	9·89	
6. The Mysore Chromite, Ltd., Mysore Taluk, Mysore District	...	...	...	...	...	3·53	If the actual figure is greater than the average, the excess above the average is reduced in proportion of the number of persons employed to 1,000. The figure inserted here is equal to the average plus this reduced excess.
7. The Mysore Iron Works, Kemmangundi Iron Mines, Tarikere Taluk, Kadur District.	...	...	...	...	...	1·42	
8. Tallur Chrome Mines, Mysore Taluk, Mysore District (Government area) ...	...	...	...	...	...	5·15	
Average for all mines ...	1·19	0·54	8·86	10·60	10·63	11·21	
Average for 1930 ...	0·81	0·69	9·13				

Number of persons killed in accidents at Mines working in the State of Mysore for the year 1931.

Table 9.

NAME AND SITUATION OF MINE	Falls in Mines				In and at Shafts							Miscellaneous Below Ground									On Surface					
	Falls of hanging wall	Falls of sides or roof	Falls of ore from working places	Total falls	Over-winding	Ropes and chains breaking	Whilst ascending or descending by machinery	Falling into shaft from surface	Falling from part way down	Things falling from surface	Things falling from part way down	Total in and at shafts	Rockbursts	Suffocation by gases	Explosion due to misfires	By explosives (other than misfires)	Falls of persons or things in Rises, Winzes and Stopes	On Inclined and Engine Planes	By Trams or Tubs, but not on Inclined and Engine Planes	By machinery	By other causes	Total miscellaneous below ground	By Machinery	Boiler and Steam Pipes bursting, etc.	On Railways, Tramways or Aerial Ropeways belonging to Mine	Miscellaneous	Total on surface	Grand Total
Number of Class of Accident ...	i	ii	iii		iv	v	vi	vii	viii	ix	x		xi	xii	xiii	xiv	xv	xvi	xvii	xviii	xix		xx	xxi	xxii	xxiii		
1 The Mysore Gold Mine, Bowringpet Taluk, Kolar District	...	...	...	0	...	...	...	...	2	...	...	2	28	...	...	...	3	...	...	...	...	31	1	...	2	...	3	36
2. The Champion Reef Gold Mine do do	...	...	...	0	...	...	...	...	...	...	...	0	2	...	...	...	5	...	...	...	...	7	...	...	...	...	0	7
3. The Ooregum Gold Mine do do	...	...	...	0	...	...	1	...	...	...	...	1	26	...	...	...	3	...	...	...	...	29	...	...	...	...	0	30
4. The Nundydroog Gold Mine do do	...	...	...	0	...	...	...	...	...	...	...	0	3	53	...	...	...	...	...	...	...	56	...	...	...	...	0	56
5. The Balaghat Gold Mine do do	...	...	...	0	...	...	...	...	1	...	...	1	...	...	1	...	...	...	...	...	...	1	...	...	...	...	0	2
Total ...	0	0	0	0	0	0	1	0	3	0	0	4	59	53	1	0	11	0	0	0	0	124	1	0	2	0	3	131

Number of persons seriously injured in accidents at Mines working in the State of Mysore during the year 1931.

Table 10.

NAME AND SITUATION OF MINE	Falls in Mines					In and at Shafts							Miscellaneous below Ground									On Surface					
	Falls of hanging wall	Falls of sides or roof	Falls of ore from working places	Total falls	Over-winding	Ropes and chains breaking	Whilst ascending or descending by machinery	Falling into shaft from surface	Falling from part way down	Things falling from surface	Things falling from part way down	Total in and at shafts	Rockbursts	Suffocation by gases	Explosion due to misfires	By Explosives (other than misfires),	Falls of persons or things in Rises, Winzes and Stopes	On Inclined and Engine Planes	By Trams or Tubs, but not on Inclined and Engine Planes	By machinery	By other causes	Total miscellaneous below ground	By machinery	Boilers and Steam Pipes bursting, etc.	On Railways, Tramways or Aerial Ropeways belonging to Mine	Miscellaneous	Total on surface	Grand Total
Number of Class of Accident ...	i	ii	iii		iv	v	vi	vii	viii	ix	x		xi	xii	xiii	xiv	xv	xvi	xvii	xviii	xix		xx	xxi	xxii	xxiii		
1. The Mysore Gold Mine, Bowringpet Taluk, Kolar District	...	...	...	0	...	...	2	...	1	...	...	3	15	...	2	...	4	...	2	1	19	43	2	...	1	2	5	51
2. The Champion Reef Gold Mine do do	1	...	1	2	..	...	...	..	1	...	1	2	10	...	...	3	5	...	4	...	14	36	...	...	...	1	1	41
3. The Ooregum Gold Mine do do	1	...	...	1	...	...	1	..	...	...	...	1	17	...	6	...	3	...	2	...	12	40	...	..	1	1	2	44
4. The Nundydroog Gold Mine do do	1	...	...	1	...	...	4	...	...	...	...	4	8	6	...	...	6	...	2	2	9	33	...	...	1	4	5	43
5. The Balaghat Gold Mine do do	...	..	...	0	...	...	1	...	...	...	1	2	8	...	1	...	2	...	2	...	2	15	...	...	...	...	0	17
Total ...	3	0	1	4	0	0	8	0	2	0	2	12	58	6	9	3	20	0	12	3	56	167	2	0	3	8	13	196

Comparative table showing the mortality and other items at Gold Mines working in the State of Mysore and in the Transvaal.

ITEMS	MYSORE																					TRANS										
Year ...	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1911	1912	1913	1914	1915	1916	1917	1918	1919	19
1. Number of separate accidents (fatal and serious) per 1,000 persons employed	14·21	10·71	10·83	8·60	10·22	7·48	6·69	6·12	8·19	11·03	7·41	7·51	9·90	10·28	10·65	10·19	10·99	9·88	12·25	10·63	10·60	10·11	10·75	11·50	10·79	10·67	10·40	9·97	10·18	12·09	13·
2. Death rate per 1,000 persons employed above ground	0·59	0·49	0·28	0·28	0·09	0·48	0·29	0·47	0·56	0·20	0·29	0·37	0·20	0·00	0·11	0·42	0·22	0·11	0·46	0·12	0·36	1·46	1·49	1·44	1·00	1·12	1·13	0·78	1·07	0·68	0·
3. Death rate per 1,000 persons employed below ground	5·09	5·12	7·28	3·68	4·23	5·66	4·67	4·73	4·54	6·01	4·95	5·42	7·09	6·43	6·92	4·50	4·94	4·36	6·66	4·26	12·86	5·58	4·96	4·82	4·16	3·93	3·83	3·34	3·12	3·16	3·
4. Death rate per 1,000 persons employed (above and below ground) ...	3·35	3·36	4·38	2·28	2·59	3·52	2·81	2·90	2·79	3·55	2·91	3·09	3·79	3·38	3·62	2·45	2·64	2·28	3·74	2·31	7·12	4·33	4·02	3·96	3·35	3·27	3·22	2·59	2·47	2·41	2·
5. Number of persons employed for each 100,000 tons of ore crushed ...	3,303	3,278	3,160	3,258	3,384	3,288	3,333	3,434	3,475	3,554	3,639	3,462	3,169	2,890	2,792	2,924	2,963	2,884	2,797	2,924	3,159	844	803	765	713	738	766	736	787	789	7
6. Number of persons killed for each 100,000 tons of ore crushed ...	11·07	11·01	13·84	7·44	8·77	11·58	9·87	9·94	9·69	12·63	10·60	10·70	12·00	9·76	10·10	7·18	7·83	6·59	10·47	6·75	22·51	3·65	3·28	3·03	2·39	2·41	2·47	1·99	2·05	1·99	2·
7. Number of persons employed for each £100,000 worth of gold obtained ...	1,229	1,225	1,186	1,209	1,233	1,188	1,185	1,264	1,304	1,317	1,442	1,435	1,270	1,188	1,156	1,151	1,165	1,178	1,093	1,237	1,309	601	555	549	535	560	573	541	561	548	5
8. Number of persons killed for each £100,000 worth of gold obtained ...	4·12	4·11	5·20	2·76	3·20	4·18	3·33	3·66	3·63	4·68	4·20	4·44	4·81	4·01	4·18	2·82	3·08	2·70	4·46	2·86	9·32	2·60	2·23	2·17	1·79	1·83	1·84	1·46	1·46	1·38	1·
9. Average value (in shillings) of ore (gold obtained per ton crushed) ...	53·72	53·54	53·28	53·87	54·86	55·38	56·25	54·33	53·27	53·97	50·46	(a) 43·69	(a) 44·65	(a) 43·73	(a) 42·54	(a) 44·42	(a) 44·92	(a) 42·53	(a) 41·52	(a) 42·29	42·85	27·98	28·95	27·90	26·65	26·32	26·74	27·15	28·02	28·70	28·0

(a) Represents the average value of gold obtained from current ore crushed only, and does not include value of gold obtained from re-treatment of old dumps as in previous years.

Table 11

1927	1928	1929	1930	1931	REMARKS
29·43	34·11	37·47	36·11	40·89	
0·33	1·14	0·94	0·64	0·68	
3·53	2·72	3·26	3·18	2·93	
2·75	2·24	2·58	2·47	2·31	
702	712	691	704	710	
2·01	1·66	1·86	1·81	1·71	
494	504	494	498	510	
1·41	1·18	1·33	1·28	1·22	
28·66	28·32	28·02	28·29	27·88	

List of mining properties leased, assigned or abandoned in the State of Mysore from January to December 1931.

Table 12.

A.—Leased.

NAME OF PROPERTY	SITUATION		Name of Lessee	Date of Grant	Registered No. of Lease	REMARKS
	Taluk	District				
Nil			Nil			Nil

B.—Assigned.

NAME OF PROPERTY	SITUATION		Registered No. of Lease	Name of Assignor	Name of Assignee	Date of Assignment	REMARKS
	Taluk	District					
Nil				Nil			Nil

C.—Abandoned.

NAME OF PROPERTY	SITUATION		Registered No. of Lease	Name of Lessee	Date of Abandonment	REMARKS
	Taluk	District				
Dodkittadahalli Block	Hosadurga ...	Chitaldrug ...	166	The Peninsular Minerals Co., of Mysore, Ltd. ...	27th March 1931	
Kenkere Block	Do ...	Do ...	167	Do	Do	
Sondenhalli Block	Chicknaikanhalli	Tumkur ...	168	Do	31st December 1931	
Shivasandra Block	Gubbi ...	Do ...	169	Do	Do	
Karekurchi Block	Tiptur ...	Do ...	170	Do	Do	